Supplementary data for the article:

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Table S1. Carotenoids concentration[a] (µg/g DW) in sweet maize kernel after applied treatments.

	ZP504su			ZP355su			ZP553su		
Treatment	Lutein + zeaxanthin								
Control	25.72	±	1.06^{e}	11.08	±	0.43^{h}	19.25	±	0.84^{f}
Mesotrione	35.33	±	0.82^{b}	6.54	±	0.53^{i}	24.23	±	1.14^{e}
Nicosulfuron	30.79	±	0.48^{c}	20.07	±	0.41^{f}	15.91	±	0.86^{g}
Mesotrione+FF	39.30	±	1.19^{a}	10.74	±	0.42^{h}	25.46	±	1.04^{e}
Nicosulfuron+FF	28.63	±	0.90^{d}	15.56	±	0.36^{g}	19.93	±	0.94^{f}
	β-carotene								
Control	0.92	±	0.04^{hi}	0.45	±	0.02^{n}	1.01	±	0.04^{gh}
Mesotrione	2.35	±	0.06^{b}	0.76	±	0.03^{jk}	1.43	±	0.05^{e}
Nicosulfuron	1.23	±	0.02^{f}	1.02	±	0.06^{g}	0.65	±	0.08^{lm}
Mesotrione+FF	2.83	±	0.06^{a}	0.59	±	0.01^{m}	1.69	±	0.01^{d}
Nicosulfuron+FF	1.87	±	0.05^{c}	0.84	±	0.03^{ij}	0.71	±	0.07^{kl}

[a]concentrations are expressed as mean values (n=3) ± standard deviation (SD); Means followed by different letter are significantly different based on Fisher's least significant difference test at $\alpha = 0.05$ level.

Table S2. Tocopherols concentration[a] (µg/g DW) in sweet maize kernel after applied treatments.

	ZP504su			ZP355su			ZP553su		
Treatment	δ-tocopherol								
Control	0.36	±	0.01^{g}	0.74	±	0.04^{d}	0.69	±	0.01^{d}
Mesotrione	0.84	±	0.02^{c}	0.53	±	0.03^{e}	0.71	±	0.01^{d}
Nicosulfuron	0.43	±	0.02^{fg}	0.94	±	0.02^{b}	0.50	±	0.04^{e}
Mesotrione+FF	0.96	±	0.02^{b}	0.48	±	0.03^{ef}	0.98	±	0.04^{b}
Nicosulfuron+FF	0.54	±	0.04^{e}	1.23	±	0.03^{a}	0.40	±	0.01^{g}
	β+γ-tocopherol								
Control	7.97	±	0.05^{g}	6.98	±	0.03^{i}	6.15	±	0.05^{k}
Mesotrione	11.06	±	0.22^{e}	4.48	±	0.08^{l}	7.43	±	0.07^{h}
Nicosulfuron	6.53	±	0.09^{j}	8.85	±	0.28^{f}	23.02	±	0.18^{a}
Mesotrione+FF	13.63	±	0.05^{c}	6.95	±	0.19^{i}	8.82	±	0.05^{f}
Nicosulfuron+FF	7.62	±	0.27^{h}	12.37	±	0.28^{d}	18.19	±	0.06^{b}
	α-tocopherol								
Control	1.53	±	0.01^{gh}	2.15	±	0.00^{f}	3.15	±	0.03^{b}
Mesotrione	2.41	±	0.01^{r}	2.10	±	0.07^{f}	2.98	±	0.08^{c}
Nicosulfuron	1.03	±	0.01^{j}	2.98	±	0.02^{c}	1.21	±	0.01^{i}
Mesotrione+FF	2.70	±	0.02^{d}	1.60	±	0.03^{g}	2.63	±	0.06^{d}
Nicosulfuron+FF	1.02	±	0.07^{j}	3.68	±	0.08^{a}	1.49	±	0.06^{h}

[a]concentrations are expressed as mean values (n=3) ± standard deviation (SD); Means followed by different letter are significantly different based on Fisher's least significant difference test at α = 0.05 level.

Table S3. Free phenolic acids concentration[a] (µg/g DW) in sweet maize kernel after applied treatments.

	ZP504su			ZP355su			ZP553su		
Treatment				Protocatechuic acid					
Control	36.69	±	0.82^{d}	29.14	±	1.02^{fg}	27.55	±	0.70^{gh}
Mesotrione	36.55	±	0.35^{d}	39.80	±	1.04^{c}	43.44	±	1.04^{b}
Nicosulfuron	30.18	±	2.55^{f}	32.71	±	1.25^{e}	24.56	±	0.64^{i}
Mesotrione+FF	42.08	±	0.15^{b}	39.94	±	0.23^{c}	48.40	±	1.32^{a}
Nicosulfuron+FF	37.57	±	0.49^{d}	26.61	±	2.34^{h}	33.18	±	0.81^{e}
				Caffeic acid					
Control	0.56	±	0.01^{n}	1.23	±	0.03^{j}	1.50	±	0.04^{d}
Mesotrione	1.04	±	0.02^{l}	1.20	±	0.03^{k}	1.49	±	0.04^{e}
Nicosulfuron	0.41	±	0.00^{o}	1.31	±	0.03^{i}	1.71	±	0.04^{c}
Mesotrione+FF	1.46	±	0.04^{g}	1.95	±	0.05^{a}	1.72	±	0.05^{b}
Nicosulfuron+FF	0.81	±	0.02^{m}	1.47	±	0.04^{f}	1.41	±	0.03^{h}
				p-Coumaric acid					
Control	9.89	±	0.21^{jk}	9.70	±	0.24^{k}	23.76	±	0.60^{a}
Mesotrione	11.37	±	0.15^{gh}	11.16	±	0.27^{h}	11.65	±	0.28^{g}
Nicosulfuron	10.62	±	0.24^{i}	10.02	±	0.26^{j}	19.64	±	0.51^{b}
Mesotrione+FF	12.00	±	0.28^{f}	15.51	±	0.40^{c}	12.69	±	0.35^{e}
Nicosulfuron+FF	9.21	±	0.23^{l}	13.42	±	0.35^{d}	19.67	±	0.48^{b}
				Ferulic acid					
Control	19.04	±	0.19^{f}	16.79	±	0.16^{jk}	17.16	±	0.25^{ij}
Mesotrione	17.44	±	0.19^{i}	21.86	±	0.28^{c}	16.73	±	0.16^{k}
Nicosulfuron	18.96	±	0.21^{f}	23.09	±	0.26^{b}	18.94	±	0.31^{f}
Mesotrione+FF	21.02	±	0.44^{d}	20.63	±	0.27^{e}	18.53	±	0.23^{gh}
Nicosulfuron+FF	18.74	±	0.22^{fg}	25.38	±	0.24^{a}	18.20	±	0.20^{h}
				Cinnamic acid					
Control	1.81	±	0.04^{m}	5.62	±	0.14^{e}	5.20	±	0.13^{g}
Mesotrione	3.05	±	0.07^{k}	5.35	±	0.15^{f}	3.47	±	0.09^{j}
Nicosulfuron	0.50	±	0.01^{o}	7.20	±	0.17^{c}	4.87	±	0.11^{h}
Mesotrione+FF	4.18	±	0.11^{i}	9.68	±	0.23^{a}	2.31	±	0.06^{l}
Nicosulfuron+FF	1.19	±	0.03^{n}	8.69	±	0.22^{b}	5.89	±	0.13^{d}

[a]concentrations are expressed as mean values (n=3) ± standard deviation (SD); Means followed by different letter are significantly different based on Fisher's least significant difference test at α = 0.05 level.